



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

C3-OH

Job Sheet OH201654



Part No: C3-OH

Job Qty: 1 ea

Part Name: C-Series Remote Hook 3,000 lbs Lift Capacity



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 10/8/19

Job Tracking No:

Due Date: 11/29/19

Created By: Jennifer Renwick

Type: Rework - OH

Description: RA800 / Order 19802 / SN M414-05

Note: DWG C3/O&OPM-C3 Rev L. Rev. 2/L IPP Rev. A 18.04.24 new issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	External Load - Issue SN	1 pcs		11/29/19	0.00	0.00	External Load - 1		5220933 JN
							External Load - 2		
							External Load - 3		
115	External Load - 2 - B4B	1 pcs		11/29/19	0.00	1.00	External Load - 1 - B4B		AP 2019-10-15
							External Load - 2 - B4B		
							External Load - 3 - B4B		
120	QC 5 N/R	1 pcs		11/29/19	0.00	0.00	QC 5 - 10		888 NOV 21 2019
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
							QC 5 - 40		



Dart Aerospace Ltd.
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Container No: S220933



Part: C3

Job No: OH201654

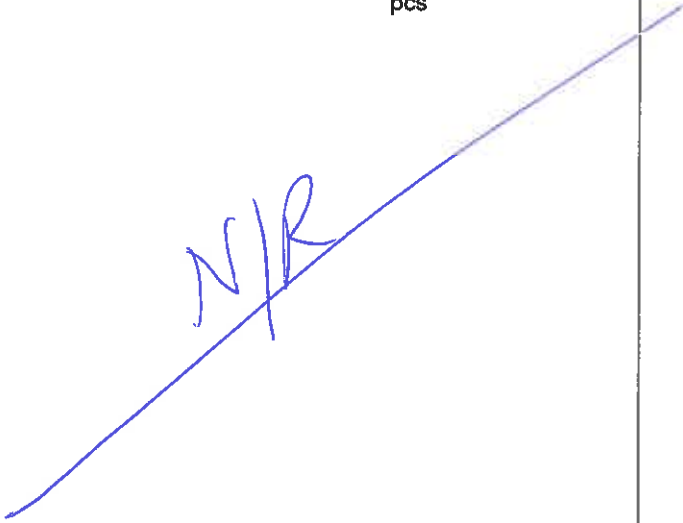
Serial No/Batch: M414-05

Revision: 2/L

Plex 10/8/19 10:57 AM Dart.Renwick.Jennifer

				QC 5 - 61		
				QC 5 - 81		
130	Customer Acceptance	1 pcs	11/29/19	0.00 0.00	External Load - 1 - B4B	
140	Outsource - 2 - NDT per QSI038	1 pcs	11/29/19		SKY002-VC 10	2019-10-16
150	Packaging 2-1 - Receive - B4B	1 pcs	11/29/19	0.00 0.00	Packaging 2 - 1 - B4B	
					Packaging 2 - 2 - B4B	
					Packaging 2 - 3 - B4B	
					Packaging 2 - 5 - B4B	NOV 08 2019
					Packaging 2 - 4 - B4B	
					Packaging 2 - 6 - B4B	
					Packaging 2 - 7 - B4B	
					Packaging 2 - 8 - B4B	
					Packaging 2 - 9 - B4B	
					Packaging 2 - 10 - B4B	
					Packaging 2 - 11 - B4B	
					Packaging 2 - 12 - B4B	
					Packaging 2 - 13 - B4B	OCT 23 2019
					Packaging 2 - 14 - B4B	
					Packaging 2 - 15 - B4B	
					Packaging 2 - 16 - B4B	
					Packaging 2 - 17 - B4B	
					Packaging 2 - 18 - B4B	
					Packaging 2 - 19 - B4B	
					Packaging 2 - 20 - B4B	
					Packaging 2 - 21 - B4B	
					Packaging 2 - 22 - B4B	
					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	
					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	

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					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
160 QC 6	1 pcs	11/29/19	0.00 0.00		QC 6 - 9	OCT 24 2019 DAS 68
					QC 6 - 68	
					QC 6 - 61	
					QC 6 - 40	
					QC 6 - 81	
165 External Load - 3 - B4B	1 pcs	11/29/19	0.00 0.50		External Load - 1 - B4B	AP 2019-10-24
					External Load - 2 - B4B	
					External Load - 3 - B4B	
170 QC 5	1 pcs	11/29/19	0.00 0.00		QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	
					QC 5 - 40	
					QC 5 - 61	
					QC 5 - 81	
175 Outsource - 15 - Nickel Plate	1 pcs	11/29/19			GRO002-VC 10	AP 2019-10-31
180 Packaging 2-2 - Receive - B4B	1 pcs	11/29/19	0.00 0.00		Packaging 2 - 1 - B4B	OCT 31 2019
					Packaging 2 - 2 - B4B	
					Packaging 2 - 3 - B4B	
					Packaging 2 - 5 - B4B	
					Packaging 2 - 4 - B4B	
					Packaging 2 - 6 - B4B	
					Packaging 2 - 7 - B4B	
					Packaging 2 - 8 - B4B	
					Packaging 2 - 9 - B4B	
					Packaging 2 - 10 - B4B	
					Packaging 2 - 11 - B4B	
					Packaging 2 - 12 - B4B	

10/8/2019

[Dart Hawkesbury] Job Sheet - Renwick, Jennifer

195 QC 5	1 pcs	11/29/19	0.00 0.00	QC 5 - 10	
				QC 5 - 12	
				QC 5 - 17	
				QC 5 - 18	
				QC 5 - 19	
				QC 5 - 22	
				QC 5 - 24	
				QC 5 - 3	
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	
				QC 5 - 58	
				QC 5 - 68	
				QC 5 - 9	
				QC 5 - 50	
				QC 5 - 30	NOV 21 2019
				QC 5 - 40	
				QC 5 - 61	
				QC 5 - 81	
200 Packaging 3-1 - Stock - B4B	1 pcs	11/29/19	0.00 0.00	Packaging 3 - 1 - B4B	
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	NOV 21 2019
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 -	

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				B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
210 DC - 1 - B4B	1 pcs	11/29/19	0.00 0.00	DC - 1 - B4B	DAS
				DC - 2 - B4B	21
220 QC21-FG	1 Ea	11/29/19	0.00 0.00	QC 21 - FG - 21	3-09

NOV 22 2019

Part Op 110 - Issue S/N

Descriptions: 115 - TEST ASSEMBLY. DISASSEMBLE ASSEMBLY. INSPECT DAMAGE PART

120 - (QC5- Inspect part completeness to step on W/O)

140 - LIQUID PENETRANT INSPECTION AS PER QSI 038

160 - (QC6- All purchased or subcontracted products) 1-Triage parts to be sent out for plating

165 - Prepare for nickel plate

170 - (QC5- Inspect part completeness to step on W/O)

175 - --Issue P/O; 44956 -All noncertified parts specifying a finish of Nickel Plating per QQ-N-290, or parts with drawings that are missing a specification Can be Nickel Plated per ASTM B733 Type 4/5, SC0-SC4 or MIL-C-26074 Class 1/2 -Material type; 4140 -Heat treat must be carried out to specified hardness if noted on the drawing. -Plating thickness must be carried out as specified on the drawing. -Certificate of Conformity is required

185 - (QC6- All purchased or subcontracted products)

190 - RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY.

195 - (QC5- Inspect part completeness to step on W/O)

200 - (Identify as per dwg & Stock Location: _____)

210 - Photocopy blue file and create labels

220 - (QC21- Final Inspection - Work Order Release)

DAS
21
3-09

NOV 22 2019

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
C3-AR	C-Series Remote Hook 3,000 lbs Lift Capacity	1 Ea (1 ea)	110-External Load - Issue SN	5219978
188-FPSS-1032-1/4	Set Screw	2 Ea (2 ea)	190-External Load - 4 - B4B	
188-FSCS-832-5/8	Clock Spring Cover Screw	4 Ea (4 ea)	190-External Load - 4 - B4B	
600.1309-A	Label	1 pcs (1 ea)	190-External Load - 4 - B4B	
600.1313	C3 Warning Label	1 pcs (1 ea)	190-External Load - 4 - B4B	
AN4-16A	Bolt	3 Ea (3 ea)	190-External Load - 4 - B4B	
AN4-17A	Bolt	1 Ea (1 ea)	190-External Load - 4 - B4B	
AN6-15A	Bolt	1 Ea (1 ea)	190-External Load - 4 - B4B	
C2-14-2	Label Rivets	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-1	Latch Shaft Du Bearing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C2-3-2-1	Roller Pin Retaining Ring	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-3-1	Latch Roller DU Bearing	1 pcs (1 ea)	190-External Load - 4 - B4B	
C2-3-5	Spacer, Teflon	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-8	Actuator Shaft Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-10-2	Lock Spring	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-12-1	Lock Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-12-6	Lock Roller Pin Circlip	2 Ea (2 ea)	190-External Load - 4 - B4B	
C3-13-1	Keeper Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-13-5	Spring, Keeper	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-3-4-1	Ring, Retaining	4 pcs (4 ea)	190-External Load - 4 - B4B	
C3-3-9	Actuator Spring	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-4-1	Load Beam Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-7-1	Load Beam Bumper	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-7-2	Lock Bumper	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-8-4	Solenoid Cover Gasket	1 pcs (1 ea)	190-External Load - 4 - B4B	
MS21044N4	Nut, Self-Locking	4 Ea (4 ea)	190-External Load - 4 - B4B	
MS21083N3	Nut	2 Ea (2 ea)	190-External Load - 4 - B4B	
MS21083N6	Nut	1 Ea (1 ea)	190-External Load - 4 - B4B	
MS35266-63	Solenoid Cover Screw	1 Ea (1 ea)	190-External Load - 4 - B4B	
NAS1149F0332P	Washer (AN960-10L)	2 Ea (2 ea)	190-External Load - 4 - B4B	
NAS1149F0363P	Washer (AN960-10)	1 Ea (1 ea)	190-External Load - 4 - B4B	
NAS1149F0432P	Washer (AN960-416L)	4 Ea (4 ea)	190-External Load - 4 - B4B	
NAS1149F0632P	Washer (AN960-616L)	2 Ea (2 ea)	190-External Load - 4 - B4B	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
110-External Load - Issue SN	C3	1	0	0
190-External Load - 4 - B4B	188-FPSS-1032-1/4	2	85	0
	188-FSCS-832-5/8	4	185	0
	600.1309-A	1	65	0
	600.1313	1	22	0
	AN4-16A	3	207	0
	AN4-17A	1	277	0
	AN6-15A	1	21	0
	C2-14-2	2	94	0
	C2-3-1	2	58	0
	C2-3-2-1	2	21	0
	C2-3-3-1	1	23	0
	C2-3-5	2	95	0
	C2-3-8	2	43	0
	C3-10-2	1	23	0
	C3-12-1	2	34	0
	C3-12-6	2	94	0
	C3-13-1	2	60	0
	C3-13-5	1	26	0
	C3-3-4-1	4	271	0
	C3-3-9	1	27	0
	C3-4-1	2	33	0
	C3-7-1	1	33	0
	C3-7-2	2	52	0
	C3-8-4	1	49	0
	MS21044N4	4	54	0
	MS21083N3	2	100	0
	MS21083N6	1	45	0
	MS35266-63	1	18	0
	NAS1149F0332P	2	2,947	0
	NAS1149F0363P	1	310	0
	NAS1149F0432P	4	757	0
	NAS1149F0632P	2	306	0

Part Specifications

Specifications could not be found.

Plex 10/8/19 10:57 AM Dart.Renwick.Jennifer

Customer OH 201654Date 2019-10-11Part Number RA 800 / Order 19802Serial Number M 414-05

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

(1) X C3-3.7 Po Link = S125622 ☐(2) X C3-3-4 LINK PIN ~~none~~ S218778 ☐(2) X AN6-17A CAGE BOLT = S104372 ☐(2) X MS21044 26 CAGE BOLT NUT = S203209 ☐(6) X NAS1149 F0663P WASHER = S106716 ☐(1) X MS24665-355 COTTER PIN = S202675 ☐(1) X C3-C-8 LIFTING BUSHING = S180893 ☐(1) C3-C-15 BUMPER ~~none~~ S223074 ☐(1) NAS1351-6-28 BUMPER BOLT = S202682 ☐(1) MS21042 6 BUMPER BOLT NUT = S164655-1 ☐Inspected By Michel Lalonde

C3

04 201654

M414-05

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
C3-AR	C-Series Remote Hook 3,000 lbs Lift Capacity	1 Ea (1 ea)	110-External Load - Issue SN	5219978
188-FPSS-1032-1/4	Set Screw	2 Ea (2 ea)	190-External Load - 4 - B4B	5110495
188-FSCS-832-5/8	Clock Spring Cover Screw	4 Ea (4 ea)	190-External Load - 4 - B4B	5126989
600-1309-A	Label	1 pcs (1 ea)	190-External Load - 4 - B4B	
600-1313	C3 Warning Label	1 pcs (1 ea)	190-External Load - 4 - B4B	5184239
AN4-16A	Bolt	3 Ea (3 ea)	190-External Load - 4 - B4B	5196064-2
AN4-17A	Bolt	1 Ea (1 ea)	190-External Load - 4 - B4B	5157429-3
AN6-15A	Bolt	1 Ea (1 ea)	190-External Load - 4 - B4B	5209068
C2-14-2	Label Rivets	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-1	Latch Shaft Du Bearing	2 pcs (2 ea)	190-External Load - 4 - B4B	5189923
C2-3-2-1	Roller Pin Retaining Ring	2 Ea (2 ea)	190-External Load - 4 - B4B	5222866
C2-3-3-1	Latch Roller DU Bearing	1 pcs (1 ea)	190-External Load - 4 - B4B	5182513
C2-3-5	Spacer, Teflon	2 Ea (2 ea)	190-External Load - 4 - B4B	5199313
C2-3-8	Actuator Shaft Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	5196195
C3-10-2	Lock Spring	1 pcs (1 ea)	190-External Load - 4 - B4B	5197483
C3-12-1	Lock Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	5193685
C3-12-6	Lock Roller Pin Circlip	2 Ea (2 ea)	190-External Load - 4 - B4B	5206297
C3-13-1	Keeper Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	5199545
C3-13-5	Spring, Keeper	1 pcs (1 ea)	190-External Load - 4 - B4B	5146022
C3-3-4-1	Ring, Retaining	4 pcs (4 ea)	190-External Load - 4 - B4B	5199546
C3-3-9	Actuator Spring	1 pcs (1 ea)	190-External Load - 4 - B4B	5128955
C3-4-1	Load Beam Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	5192917
C3-7-1	Load Beam Bumper	1 pcs (1 ea)	190-External Load - 4 - B4B	5214422
C3-7-2	Lock Bumper	2 pcs (2 ea)	190-External Load - 4 - B4B	5120091
C3-8-4	Solenoid Cover Gasket	1 pcs (1 ea)	190-External Load - 4 - B4B	5213024
MS21044N4	Nut, Self-Locking	4 Ea (4 ea)	190-External Load - 4 - B4B	5203176
MS21083N3	Nut	2 Ea (2 ea)	190-External Load - 4 - B4B	5220750
MS21083N6	Nut	1 Ea (1 ea)	190-External Load - 4 - B4B	5192157
MS35266-63	Solenoid Cover Screw	1 Ea (1 ea)	190-External Load - 4 - B4B	5183289
NAS1149F0332P	Washer (AN960-10L)	2 Ea (2 ea)	190-External Load - 4 - B4B	5103666-1
NAS1149F0363P	Washer (AN960-10)	1 Ea (1 ea)	190-External Load - 4 - B4B	5075330-3
NAS1149F0432P	Washer (AN960-416L)	4 Ea (4 ea)	190-External Load - 4 - B4B	5131202
NAS1149F0632P	Washer (AN960-616L)	2 Ea (2 ea)	190-External Load - 4 - B4B	5048297-2
C2-10-1	Spring pin	1		5068051
C3-12-2	Lock SHAF	1		5080193
Part 27500	file (M27500-16G2T14) 1/2"			5045144
Part 32446	connector	2		5120365
C3-8-2	Solenoid	1		5210004

Inspection Sheet Complete

RA800

Part Number	Original Batch / Serial # / Ctr1 #	Original Revision #	Quantity	Part Complete	Rev/CHG Current	New Paperwork	New Labels	Disposition	Original Container #	New (Receiving) Serial #	New Job #	Work order Instructions
C60	M253-02		1	☐ Yes	☐ Yes	☐ Yes	☐ Yes			S219962	OH201652	Overhaul
C3	M165-3		1	☐ Yes	☐ Yes	☐ Yes	☐ Yes			S219965	OH201653	Overhaul
C3	M414-05		1	☐ Yes	☐ Yes	☐ Yes	☐ Yes			S219978	OH201654	Overhaul
Need to confirm part#/Ser			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					

Customer QA Ref # 0

QC Approval: 0

Date: 0-Jan-00

Special Return/Rework Instructions:

Work Order OH 201654Customer RA800 / ORDER: 19802Serial Number M414-05Date 2019/10/15**MAGNAFLUX**

Part Number	Description	Quantity	
C3-44A	Load Beam	1	
<u>C2-3-11</u>	Actuator Shaft	1	
C3-3-7	Link	0	
C3-3-4	Link Pins	0	
<u>C2-3-6</u>	Latch	1	
<u>C2-3-3</u>	Latch Roller	1	
<u>C2-3-2</u>	Latch Roller Pin	1	
<u>C2-3-10</u>	Latch Shaft	1	
C3-12-3	Lock	1	
C3-12-2	Lock Shaft	1	
C3-12-4	Lock Roller	1	
C3-12-5	Lock Roller Pin	1	

TOTAL : 10

ZYGLO

Part Number	Description	Quantity	Pass/Fail
C3-2-1	Side Plate	1	
C3-11-1	Side Plate Solenoid	1	

TOTAL : 2

Test Conducted By: _____

Signature: _____



Overhaul Incoming Inspection

C3 Cargo Hook

Customer

OH 201654

Date

2019-10-11

Part Number

RA 800 / Order 19802

Serial Number

M 414-05

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

(1) X C3-3.7 Link

☐

(2) X C3-3-4 Link pin

☐☐

(2) X AN6-17A CAGE BOLT

☐

(2) X MS21044 26 CAGE BOLT NUT

☐

(6) X NAS1149 F0663P WASHER

☐

(1) X MS24665-355 COTTER PIN

☐

(1) C3-C-8 LIFTING BUSHING (S2205 74)

☐

(1) C3-C-15 BUMPER

☐

(1) NAS1351-6-28 BUMPER BOLT

☐

(1) MS21042 6 BUMPER BOLT NUT

Inspected By

Michel Lalonde

Pre test

****MAKE SURE YOU ARE USING THE CORRECT TEST FORM FOR THE CORRECT SOLENOID!****

Old SOLENOID (H2817-024)

Work Order

OH 201654

Customer

RA 800 / Order 19802

Serial Number

M 414-05

Date

2019-10-11

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/Fail
1	7,500	Static Hold	Hold for two Minutes and reduce load to zero	N/A	<i>Pass</i>
10	1,500	Electircal, 25 volts	No "hang ups" permitted	N/A	<i>Pass</i>
2	3,000	Electircal, 22 volts	Current shall not exceed 4.5A	<i>3.9</i> A	<i>Pass</i>
2	2,500	Electircal, 22 volts	Current shall not exceed 4.5A	<i>3.9</i> A	<i>Pass</i>
2	2,000	Electircal, 22 volts	Current shall not exceed 4.5A	<i>3.8</i> A	<i>Pass</i>
2	1,500	Electircal, 22 volts	Current shall not exceed 4.5A	<i>3.8</i> A	<i>Pass</i>
2	500	Electircal, 22 volts	Current shall not exceed 4.5A	<i>3.7</i> A	<i>Pass</i>
1	3,000	Electircal, 20 volts	Current shall not exceed 4.1A	<i>3.4</i> A	<i>Pass</i>
1	3,000	Electircal, 28 volts	Current shall not exceed 5.7A	<i>4.9</i> A	<i>Pass</i>
1	3,000	Manual		N/A	<i>Pass</i>
1	3,000	Impact Test	Impact shackle 10 times, shall not release	N/A	<i>Pass</i>
1	N/A	Solenoid Ohms	Shall not exceed 4.9-5.6 Ohms	<i>5.3</i> Ohm	<i>Pass</i>
1	N/A	Electircal Continuity	Across both wires	N/A	<i>Pass</i>

Test Conducted By:

Michel Labonde

Technician

Signature:

QC 5 Small FAB / QA

Submit

Work Order OH 201654Customer RA800 / ORDER: 19802Serial Number M414-05Date 2019/10/15**MAGNAFLUX**

Part Number	Description	Quantity	
C3-4-4A	Load Beam	1	
<u>C2-3-11</u>	Actuator Shaft	1	
C3-3-7	Link	0	
C3-3-4	Link Pins	0	
<u>C2-3-6</u>	Latch	1	
<u>C2-3-3</u>	Latch Roller	1	
<u>C2-3-2</u>	Latch Roller Pin	1	
<u>C2-3-10</u>	Latch Shaft	1	
C3-12-3	Lock	1	
C3-12-2	Lock Shaft	1	
C3-12-4	Lock Roller	1	
C3-12-5	Lock Roller Pin	1	

TOTAL : 10

ZYGLO

Part Number	Description	Quantity	Pass/Fail
C3-2-1	Side Plate	1	
C3-11-1	Side Plate Solenoid	1	

TOTAL : 2

Test Conducted By: _____

Signature: _____



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **POHB044780**



Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

Attention: Jenne, Heather

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB044780
PO Date: 10/16/19
Due Date: 10/21/19
Purchase Order Revision:
Revision Date:
Ship-To Contact: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	OH201667	SWA3-2-OH	O&OPM-SWA3 Rev 3	Electric Swivel 3,000 lb Safe Work Load (1,360 kg) LIQUID PENETRANT INSPECTION AS PER QSI 038	Firmed	-	10/22/19	1 pcs	0 pcs	1 pcs	\$118.6666/pcs	\$118.67
Line Item Note: Serial # M608-02 = 2 pcs Serial # AC12020 = 2 pcs OCT 2 3 2019												
	OH201668				Firmed	-	10/23/19	1 pcs	0 pcs	1 pcs	\$118.6666/pcs	\$118.67
Sub Total:								2	0	2		\$237.33
2	OH201654	C3-OH	C3/O&OPM-C3 Rev L 2/L	C-Series Remote Hook 3,000 lbs Lift Capacity LIQUID PENETRANT INSPECTION AS PER QSI 038	Firmed	-	10/23/19	1 pcs	0 pcs	1 pcs	\$118.6666/pcs	\$118.67
Line Item Note: 1 kit = 12 pcs OCT 2 3 2019												
Grand Total:												\$356.00



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044780



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/22/19 3:57 PM Dart.Guerin.Kimberley

**skyservice****Work Order Traveler**

Sky Service F.B.O. Inc.

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO42194	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: POHB044780
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:**CARRY OUT NDT ON :**

1 ELECTRIC SWIVEL (2 PCS), P/N# SWA3-2-OH , J/S# OH201668

1 ELECTRIC SWIVEL (2 PCS), P/N# SWA3-2-OH , J/S# OH201667

1 C SERIES REMOTE HOOK (12 PCS), P/N# C3-OH , J/S# OH201654

DAS
68
0 84

Action Taken:					Date:	Initial/Stamp:
LPI & MPI C/O IAW ASTM E-1417M-16 AND ASTM E-1444M-16 ***NO CRACK FOUND*** PEN , ZL-37 MPO#: 21721 CLEANER SKC-S MPO15030, EMU.(ZR-10B, MPO24781), DEV. MPO15030, UV LIGHT M-20142 MAGBENCH S/N 208123 CAL DUE: 18-MAR-2020 POWDER 14A BATCH# MPO13600 CARRIER II BATCH# MPO22794					OCT 7 2 2019	 RV 313 AS
Description	Location	P/N	Qty	Batch	S/N Off	S/N On

RECEIVED
OCT 7 3 2019
DART AEROSPACE LTD.

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature:	ACA/SCA Stamp:	Date: OCT 7 2 2019
Name: RICARDO VARGAS		



DATE: 2019/10/24

NICKEL PLATING

MODEL: C3

S/N : M414-05

JOB : OH201654

ORDER : 19802 / RA800

P/N	DESCRIPTION	QUANTITY
C3-4-4A	LOAD BEAM	1
C3-13-4	KEEPER	1
C3-12-3	LOCK	1
C3-12-4	LOCK ROLLER	1
C2-3-3	LATCH ROLLER	1
C3-12-2	LOCK SHAFT	1
A PATRY	TOTAL	6 PCS

DART

DATE: 2019/10/24

NICKEL PLATING

MODEL: C3

S/N : M414-05

JOB : OH201654

ORDER : 19802 / RA800

P/N	DESCRIPTION	QUANTITY
C3-4-4A	LOAD BEAM	1
C3-13-4	KEEPER	1
C3-12-3	LOCK	1
C3-12-4	LOCK ROLLER	1
C2-3-3	LATCH ROLLER	1
C3-12-2	LOCK SHAFT	1
A: PATRY	TOTAL	6 PCS



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **POHB044956**



Supplier: GRO002-VC
Group Altech
2455 Halpern
St Laurent
QC
H4S 1N9 Canada
Phone: 514-335-3666
Fax: 514-335-3668

Attention: Grenon, Sylvie

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB044956

PO Date: 10/31/19

Due Date: 11/11/19

Purchase Order

Revision:

Revision Date:

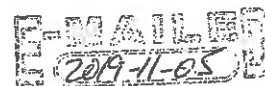
Ship-To Contact: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Via: Ground

Pymt Terms: Net 60

Freight Terms:

Special Comments:



Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044956



Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	198323	C3-C-8	C3-C Rev J	Lifting Bushing -Issue P/O -All noncertified parts specifying a finish of Nickel Plating per QQ-N-290, or parts with drawings that are missing a specification Can be Nickel Plated per ASTM B733 Type 4/5, SC0-SC4 or MIL-C-26074 Class 1/2 -Material type 4140 -Heat treat must be carried out to specified hardness if noted on the drawing. -Plating thickness must be carried out as specified on the drawing. -Certificate of Conformity is required	Firmed X15	-	11/11/19	15 pcs	0 pcs	15 pcs	\$6.8142/pcs	\$102.21

NOV 08 2019

NE



Dart Aerospace Ltd.
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Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **POHB044956**



Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
2	R202590	C3-13-4-2	C3-13-4-2 Rev 4	Keeperless Adapter Outside Processing - Nickel Plate - Issue P/O -All noncertified parts specifying a finish of Nickel Plating per QQ-N-290, or parts with drawings that are missing a specification Can be Nickel Plated per ASTM B733 Type 4/5, SC0-SC4 or MIL-C-26074 Class 1/2 -Material type; 4140 -Heat treat must be carried out to specified hardness if noted on the drawing. -Plating thickness must be carried out as specified on the drawing. -Certificate of Conformity is required	Firmed	-	11/11/19	10 pcs	0 pcs	10 pcs	\$12.00/pcs	\$120.00

Line Item Note ***PARTS TO BE STRIPPED and then contact Dart before plating. ***



Dart Aerospace Ltd.
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PURCHASE ORDER **POHB044956**



Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	OH201654	C3-OH	C3/O&OPM-C3 Rev L. Rev 2/L	C-Series Remote Hook 3,000 lbs Lift Capacity -Issue P/O -All noncertified parts specifying a finish of Nickel Plating per QQ-N-290, or parts with drawings that are missing a specification Can be Nickel Plated per ASTM B733 Type 4/5, SC0-SC4 or MIL-C-26074 Class 1/2 -Material type; 4140 -Heat treat must be carried out to specified hardness if noted on the drawing. -Plating thickness must be carried out as specified on the drawing. -Certificate of Conformity is required	Firmed	-	11/11/19	1 pcs	0 pcs	1 pcs	\$304.2852/pcs	\$304.29

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Line Item Note 1 kit = 6 pcs

Grand Total: \$526.50



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044956



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing (Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/5/19 12:50 PM Dart.Guerin.Kimberley



Certificat de Conformité / Certificate of Compliance

(023732-2)

2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9
 Tel: 514-335-3666 Fax: 514-335-3868
 www.groupaltech.com

Bon de Livraison / Packing Slip

023732 - 2

Livré à / Ship to

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 Tel.: 613-632-5200 Fax.:

Client / Customer:

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 BUYER:

Date expédition Ship date		Créé Par Generated By	Transport / No de Compte Courier / Acc. No.	Bon de commande Client Customer Purchase Order No.				
07-Nov-2019		Jigar Patel		POHB044956				
#Ligne Line#	No. de Série / # Pièce Part Number / Line Item Details Job # / Ref #	Description pièce(s)	CATG. U/M	Comm. /Ordered	Exp/ Shipped	Qté NC/ NG Qty	Qté Scrap/	À venir/ Back Order
1	C3-C-8 Rev.J	C3-C E-NIC STEEL 500 [E-NICKEL STEEL 500] QQ-N-290 OR AS PER B733 TYPE - 4 / 5, SCD - SC4 OR MIL-C-26074 CLASS - 1 / 2 0.0004 " - 0.0006 " BAKE AFTER	E-NICKEL-500 CH	15	15	0	0	0
3	C3-OH Rev.L, 2/L	C3/O&OPM-C3 STRIP E-NIC STEEL 500 [E-NICKEL STEEL 500] QQ-N-290 OR ASTM B733 TYPE 4/5, SCD-SC4 OR MIL-C-26074 CLASS 1/2 0.0009 " - 0.0011 " (FOR HOOK ONLY) 0.0004 " - 0.0006 " (FOR REST OF THE SMALL PARTS) BAKE AFTER <u>1 KIT = 6 PCS</u>	E-NICKEL-500 CH	1	1	0	0	0
4	STRIPPING CHARGES Rev.	STRIPPING CHARGES 01 -STRIP [STRIP]	STRIP LOT	1	1	0	0	0
5	BAKING CHARGE Rev.	BAKING CHARGE 01 -BAKING, HYDROGEN EMBRITTLEMENT RELIEF	BAKE MIN-CHG	1	1	0	0	0

RECEIVED

RECEIVED

NOV 08 2019

NOV 08 2019

DART AEROSPACE LTD.

Notes Additionnelles / Additional Notes

DART AEROSPACE LTD.

Épaisseur réelle
Actual Thickness

Inspecteur Qualité
Quality Inspector

Réçu par
Received By

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.
 Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.
 Our financial and legal responsibility will not be higher than the amount of invoice.

Jennifer Renwick

From: Caitlin Crooks
Sent: Thursday, October 24, 2019 10:53 AM
To: Jennifer Renwick
Subject: FW: C60 Overhaul & C3- RA needed Customer plans to ship Sept 30th
Attachments: SHBY-PRT-QA19101513462.pdf; SHBY-PRT-QA19101513461.pdf; SHBY-PRT-QA19101513460.pdf

Hi Jen

See below from customer

Good morning Caitlin,

PN: C3 - SN: M414-05 – Approved for Overhaul. – OH20654
PN: C60 – SN: M253-02 – Approved for Overhaul. ✓ – OH 201652
PN: C3 – SN: M165-3 – Not Approved for Overhaul(We will purchase New) → OH 201653

Thanks
Caitlin

From: Jennifer Renwick <jrenwick@dartaero.com>
Sent: Tuesday, October 15, 2019 2:58 PM
To: Lacey Cantin <lcantin@dartaero.com>; Caitlin Crooks <ccrooks@dartaero.com>
Subject: RE: C60 Overhaul & C3- RA needed Customer plans to ship Sept 30th

Hi Guys,

Please see attached inspection sheets with extra parts needed. No extra parts are needed for the swivels.

RA800-order 19802 → New ship date = Add 9 Days.

Thank you,
Jen

From: Jennifer Renwick
Sent: Tuesday, October 08, 2019 11:51 AM
To: Lacey Cantin <lcantin@dartaero.com>; Caitlin Crooks <ccrooks@dartaero.com>
Subject: RE: C60 Overhaul & C3- RA needed Customer plans to ship Sept 30th

So sorry, I guess receiving did not see these..... They were included. SWA3-2 (x2) SN AC12020 and M608-02. I will add these to the return and create a job.

From: Jennifer Renwick
Sent: Tuesday, October 08, 2019 11:34 AM
To: Lacey Cantin <lcantin@dartaero.com>; Caitlin Crooks <ccrooks@dartaero.com>
Subject: RE: C60 Overhaul & C3- RA needed Customer plans to ship Sept 30th

SN M608-02 was manufactured out of Canam so we have no record of making this, also has never been overhauled at Eugene... I will make a note on the return that there is a swivel coming in but we need to confirm the part# before receiving in Plex.

Thank you,
Jen

From: Jennifer Renwick
Sent: Monday, September 30, 2019 8:52 AM
To: Caitlin Crooks <ccrooks@dartaero.com>
Subject: RE: C60 Overhaul & C3- RA needed Customer plans to ship Sept 30th

Ok, no problem. I will look it up and add to the return.

From: Caitlin Crooks <ccrooks@dartaero.com>
Sent: Monday, September 30, 2019 8:30 AM
To: Jennifer Renwick <jrenwick@dartaero.com>
Subject: RE: C60 Overhaul & C3- RA needed Customer plans to ship Sept 30th

Hi Jen

Just as a side note, there will be a swivel coming back in this shipment as well. Unfortunately the photos of the tag are unreadable (see attached)

There is a S/N but I have not had a chance to have Ross look it up, and the customer planned to ship back today so I wanted to ensure there was an RA # on the box

If you require further information, please let me know and I will be happy to assist.

Kind Regards,
Caitlin

CAITLIN CROOKS
Inside Sales Representative

DART AEROSPACE
T 1 613 632-3336 > 289
F 1 613 632-4443
M 1 613 306-0596
E ccrooks@dartaero.com
1 800 556-4166
www.dartaerospace.com

For *technical support*, click [here](#).
To access *technical documentation*, create your account [here](#).



From: Jennifer Renwick <jrenwick@dartaero.com>
Sent: Monday, September 30, 2019 8:24 AM



Aaron Cole

Sales Representative

Skyline Helicopter Technologies

T: (705)692-2900 F: (705)692-1265

www.skylinehelicopters.com



Bell Helicopter Customer Service Facility

Robinson Authorized Service Center

Sikorsky Authorized Customer Support Center

From: Caitlin Crooks [<mailto:ccrooks@dartaero.com>]

Sent: September 24, 2019 9:38 AM

To: Aaron Cole

Subject: RE: C60 Overhaul.

Hi Aaron

Please see the attached, did you receive a return authorization yesterday or did you just send us through photos and S/N's>?

If you require further information, please let me know and I will be happy to assist.

Kind Regards,

Caitlin

CAITLIN CROOKS

Inside Sales Representative

DART AEROSPACE

T 1 613 632-3336 > 289

F 1 613 632-4443

M 1 613 306-0596

E ccrooks@dartaero.com

1 800 556- 4166

www.dartaerospace.com

For *technical support*, click [here](#).

To access *technical documentation*, create your account [here](#).



From: Aaron Cole <sales@skylinehelicopters.com>

Sent: Monday, September 23, 2019 11:11 AM

To: Caitlin Crooks <ccrooks@dartaero.com>

Subject: C60 Overhaul.